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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/850,383

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Brenda Lynn Dietrich

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EXAMINER

CHENCINSKI, SIEGFRIED E

ART UNIT

PAPER NUMBER

3628

DATE MAILED: 02/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/850,383

Applicant(s)

DIETRICH, BRENDA LYNN

Examiner

Siegfried E. Chencinski

Art Unit

3628

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 August 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

1. Claims 1, 2, 6, 7, 11, 12 and 13 are rejected under 35 U.S.C. 102(b) as being unpatentable over (US Patent 5,905,975).

Re. Claims 1, Ausubel discloses a computer implemented method for an auction comprising the steps of:

- (1) establishing an auction system (Abstract, ll. 1-2; Col. 1, ll. 61-65); and
- (2) receiving at least one constraint specified by a participant in the auction wherein the constraint characterizes combinations of items desired by the participant within the auction system (Col. 2, ll. 39-50; Col. 29, ll. 4-14); and

Ausubel does not explicitly disclose determining a winner in the auction, based on the constraint specified by the participant. As such, Ausubel does not use the term "winner(s)" in his teaching. However, Ausubel does disclose transactions which result from the auctions taught by him. An ordinary practitioner of the art at the time of Applicant's invention would have understood that both parties to an auction transaction are winners in the commonly understood meaning of any transaction which results from an auction, since both parties have to be satisfied that they are each better off by entering into the transaction versus not entering into the transaction. This makes each one a winner in the common understanding of the matter. On the other hand, at least one of the two parties to a transaction would not participate in the consummation of a transaction if they thought that a proposed transaction would make them a "loser" (i.e. a non winner), which would be the case if they viewed the offered transaction to be not to their benefit as they define the benefit. Thus, no transaction would occur and thus no winner would be possible if there is no transaction. Therefore, it would have been

obvious to an ordinary practitioner of the art at the time of Applicant's invention to have combined the art of Ausubel with the common understanding about transactions and particularly about transactions resulting from an auction process, motivated by a desire to offer and implement improved auction methods (Ausubel, Col. 1, ll. 15-16).

Re. Claim 2, Ausubel discloses a method wherein the auction system is elected from a group consisting of an open cry auction, an ascending bid auction, and a descending bid auction (Col. 1, ll. 21-22, 61-65).

Re. Claim 6, Ausubel discloses a method enabling the auction system so that it is responsive to constraints selected from the group consisting of a maximum quantity constraint, a minimum quantity constraint, a precedence constraint, and a general linear constraint (Col. 2, ll. 39-40; Col. 6, ll. 56-58).

Re. Claim 7, Ausubel discloses a method comprising enabling the auction system so that it is responsive to seller constraints (Ausubel's method has inherent seller constraints without which the auction could not function. These constraints are established in the auctioneer's intelligent system for providing auction information to bidders, and then for evaluating bids – Abstract.).

Re. Claim 11, Ausubel discloses a method of formulating a winner determination problem with the constraint specified by the participant as an integer problem (Please refer to the rejection of claim 1 regarding winner determination and constraints. Further, Ausubel teaches the use formulation and processing of an auction process through the use of an integer approach (Fig's 3D-12B)).

Re. Claim 12, it would have been obvious to an ordinary practitioner that Ausubel discloses a method of applying the integer program for determining at least one winner (Col. 1, l. 61 – Col. 5, l. 40).

Re. Claim 13, Ausubel discloses a program medium executable in a computer system for facilitating an auction (Col. 6, ll. 15-49), the program medium comprising machine-readable instructions to pause the computer system to execute steps for:

- (1) establishing an auction system (Abstract, ll. 1-2; Col. 1, ll. 61-65); and
- (2) enabling the auction system so that it is responsive to constraints specified by or on behalf of a participant in the auction, wherein the constraints characterize combinations

of items desired by the participant within the auction system (Please see the rejection of claim 1).

Audubel suggests generating a proposal, based on the constraints specified by the participant, using a column generation formulation (Fig. 3D displays bid data in a column. Making use, analyzing and displaying data in columns and matrices has been a basic display for a long time. It is also a technique used in mathematical and computer software analytical and parsing techniques). Therefore, it would have been obvious to the ordinary practitioner of the art at the time of Applicant's invention to have combined the art of Audubel to for the purpose of executing a program in a computer system for operating an auction with machine readable instructions and making use of column generation techniques, motivated by a desire to offer and implement improved auction methods (Ausubel, Col. 1, ll. 15-16).

Re. Claim 14, Ausubel discloses or suggests a computer implemented method for facilitating an auction comprising:

receiving constraints specified by a participant in the auction, wherein the constraints characterize combinations of items desired by the participant within an auction system (see the rejection of claim 1); and

formulating a winner determination problem, with the constraints specified by the participant, as an integer problem (see the rejections of claims 1 and 11).

Re. Claim 15, Ausubel discloses method comprising determining winners from among participants in the auction by applying the integer program (See the rejection of claim 11).

Re. Claim 16, Ausubel discloses a method specifying combinatorial bids by interpreting the constraints. Applicant defines combinatorial bidding as a "computer implemented system for a combinatorial auction. One or more bidders participate in the auction. Two or more items are being auctioned." (p. 14, ll. 13-14). It would have been obvious to an ordinary practitioner at the time of Applicant's invention that Audubel teaches such an auction, since Audubel teaches or suggests two or more bidders and two or more items (See the rejection of claim 1).

Re. Claim 17, Ausubel discloses a method of generating a proposal based on the constraints specified by the participant using a column generation formulation (see the rejection of claim 13).

Re. Claim 18, Ausubel discloses a method wherein the proposal comprises a set of bids from the participant that satisfies the constraints specified by the participant (See the rejection of claims 1 and 13).

Re. Claim 19, Ausubel discloses a method wherein the constraints are represented by linear relationships between indicator variables on bids from the participant (See the rejection of claim 6).

2. Claims 3, 4 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ausubel as applied to claim 1 above, and further in view of McAfee et al. (US Patent 6,718,312 B1, hereafter McAfee).

Re. Claim 3, Ausubel does not explicitly disclose a method wherein the constraints characterize combinations of bids from the participant for the desired items within the auction system. However, Ausubel does in fact teach and suggest the use of constraints and the combination of items desired by participants by participants in an auction process (see the rejection of claim 1). Further, McAfee discloses a method wherein the constraints characterize combinations of bids from the participant for the desired items within the auction system (Abstract, I. 8; Col. 1, I. 9; Col. 5, II. 19-20; Col. 9, II. 66-67). It would have been obvious to an ordinary practitioner at the time of Applicant's invention to have combined the art of Ausubel with that of McAfee in order to be responsive to constraints that characterize combinations of items, motivated by the desire to offer combinatorial auction methods and systems that eliminate associated bidding problems (McAfee, Col. 9, II. 59-63).

Re. Claim 4, Ausubel does not explicitly disclose a method enabling the auction system so that it is responsive to a budget constraint. However, McAfee discloses a method which comprises enabling the auction system so that it is responsive to a budget constraint (Col. 6, II. 1-3, 58-62. McAfee's method teaches a method responsive to a budget constraint). It would have been obvious to an ordinary practitioner at the time of

Applicant's invention to have combined the art of Ausubel with that of McAfee to be responsive to budget constraints, motivated by the desire to offer combinatorial auction methods and systems that eliminate associated bidding problems (McAfee, Col. 9, ll. 59-63).

Re. Claim 5, Ausubel does not explicitly disclose a method wherein the budget constraint is specified by the participant. However, McAfee suggests a method wherein the budget constraint is specified by or on behalf of the participants, which can be either the seller or buyer/bidder, or both. McAfee suggests that both parties are likely budget constrained (Col. 6, ll. 1-3, 58-62. McAfee's method teaches a method responsive to a budget constraint, which in turn would have made it obvious to an ordinary practitioner at the time of Applicant's invention to consider various ways of including budget constraints into the auction process from both seller and buyer/bidder points of view). Therefore, it would have been obvious to an ordinary practitioner at the time of Applicant's invention to have combined the art of Ausubel with that of McAfee to be responsive to budget constraints specified by or on behalf of a bidder, motivated by the desire to offer combinatorial auction methods and systems that eliminate associated bidding problems (McAfee, Col. 9, ll. 59-63).

3. Claims 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ausubel in view of Macready et al. (US PreGrant Publication 2002/0016759, hereafter Macready).

Re. Claim 8, Ausubel does not explicitly disclose a method wherein the seller constraints specify a minimum value for a combination of items. However, Macready discloses a method wherein the seller constraints specify a wide range of parameter possibilities (Page 6, [0077]; [0108]-ll. 1-2; [0110]). It would have been obvious to the ordinary practitioner at the time of applicant's invention that these possibilities suggest the imposition of a constraint specifying a minimum value. Such a value would be based on the participant's assessment that he would be worse off to engage in a transaction below such a minimum value). Hence it would have been obvious to an ordinary practitioner at the time of Applicant's invention to have combined the art of Ausubel with

that of Macready to be responsive to seller constraints such as a minimum value for a combination of items, motivated by the desire to offer flexibility to all trading partners to locate win-win opportunities for all parties if they exist (Macready, page 2, [0012]-II. 7-9).

Re. Claim 9, Ausubel does not explicitly disclose a method wherein of enabling the seller constraints specify a minimum value for a combination of a minimum number of items to be sold. See the rejection of claim 8. The ordinary practitioner would have seen it as obvious that minimum values could easily be involved in auctions which involve multiple items and in which the seller(s)'s constraints permit or perhaps even require bidding on a combination of items. See the rejection of claim 10 for an illustration of such circumstances. The selling participant would may have an interest in establishing a minimum value in a combination of items in the case of a car parts auction. It would have been obvious to an ordinary practitioner at the time of Applicant's invention to have combined the art of Ausubel with that of Macready to be responsive to seller constraints such as a minimum value for a combination of a minimum number of items to be sold, motivated by the desire to offer flexibility to all trading partners to locate win-win opportunities for all parties if they exist (Macready, page 2, [0012]-II. 7-9).

Re. Claim 10, Ausubel does not explicitly disclose a method wherein the seller constraints specify a minimum value for a combination of items correlated to a precedence relationship. However, Ausubel teaches conditions submitted by buyers as a part of their bids. Further, Macready teaches that the auction process cannot proceed until bidder conditions are fulfilled ([00340]-II. 3-4). Also, Applicant defines precedence constraints as available to both sellers and buyers (page 6, II. 4-18), simply as a previously established bid or offer, or a previously established condition, which has to be met if a newly submitted condition, bid or offer is to be accepted. An ordinary practitioner would have been familiar with such conditional offers and would have known that the conditional offers can be based on an unlimited number of factors, including previously submitted terms, conditions, offers or bids. Macready also discloses a method of enabling the auction system so that seller constraints specify a wide range of parameter possibilities. Macready further teaches combinations in offers and combinations of values ([0344] and in claim 64). An ordinary practitioner would have

seen that such combinations of values could easily involve bids for multiple items conditioned in whatever manner suits the bidder if two or more items are offered by a seller or even by multiple sellers who are participating in the same auction. For example, in an auction of used car parts (an industry which has become quite sophisticated in the era of personal computers) it would be reasonable for a bidder to establish a bid for a front grill assembly for a certain year/model car conditioned on the preceding bid for the body of the same make/model car which he has determined has a smashed grill. It would have been obvious to an ordinary practitioner at the time of Applicant's invention to have combined the art of Ausubel with that of Macready and well known practices to be responsive to seller constraints such as a minimum value for a combination of items correlated to a precedence relationship, motivated by the desire to offer flexibility to all trading partners to locate win-win opportunities for all parties if they exist (Macready, page 2, [0012]-II. 7-9).

Response to Arguments

4. Applicant's arguments filed August 8, 2005 with respect to claims 1-19 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Siegfried Chencinski whose telephone number is (571)272-6792. The Examiner can normally be reached Monday through Friday, 9am to 6pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Hyung S. Sough, can be reached on (571) 272-6799.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks, Washington D.C. 20231

or faxed to:

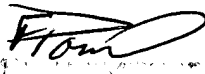
(571)273-8300 [Official communications; including After Final communications
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(571) 273-6792 [Informal/Draft communications, labeled "PROPOSED" or
"DRAFT"]

Hand delivered responses should be brought to the address found on the above
USPTO web site in Alexandria, VA.

SEC

February 2, 2006


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Au 3628